IV. AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A processing apparatus for processing a substrate on a surface of which a film is formed, comprising:

a film removing member for selectively removing the film on a predetermined portion of an outer peripheral part of the substrate; and

a rotating mechanism for rotating the substrate,

said film removing member having a shape which is composed of a vertical part, an upper part formed in a horizontal direction from an upper end part of the vertical part, and a lower part formed in a same direction as the horizontal direction from a lower end part of the vertical part, being formed so that the outer peripheral part of the substrate is allowed to be inserted into an opening which is formed by the upper part and the lower part, and including a plasma supply part for supplying plasma of a reactive gas to the film on the predetermined portion and a suction port for sucking an atmosphere in a vicinity of the predetermined portion from outside the substrate, and

said plasma supply part being attached to <u>a portion facing the predetermined</u> <u>portion and</u> a ceiling surface inside said film removing member surrounded by the vertical part, the upper part, and the lower part, <u>and</u>

said suction port being provided outside said plasma supply part and having a controlling part for controlling a suction pressure of said suction port.

- 2. (Canceled)
- 3. (Canceled)
- 4. (Previously presented) The processing apparatus as set forth in claim 1, wherein

said suction port is provided inside said film removing member and at a position facing the opening.

5. (Canceled)

6. (Currently Amended) The processing apparatus as set forth in claim-5_1, wherein

said plasma supply part is provided in a portion facing the predetermined portion in said film removing member, and said suction ports are provided facing to each other with said plasma supply part therebetween.

- 7. (Canceled)
- 8. (Original) The processing apparatus as set forth in claim 1, further comprising:
 - a horizontal driving part for horizontally moving said film removing member.
 - 9. (Canceled)
- 10. (Original) The processing apparatus as set forth in claim 1, wherein said plasma supply parts are provided at plural positions along a radial direction of the substrate in said film removing member.
- 11. (Original) The processing apparatus as set forth in claim 1, wherein said plasma supply parts are provided at plural positions along a circumferential direction of the substrate in said film removing member.
- 12. (Original) The processing apparatus as set forth in claim 1, wherein said plasma supply part is an emitting part of a ray for converting the reactive gas into the plasma.
- 13. (Original) The processing apparatus as set forth in claim 10, wherein said film removing member further includes a reactive gas jetting part for jetting the reactive gas.

14 - 16. (Canceled)

17. (Original) The processing apparatus as set forth in claim 1, further comprising:

a removal solution discharge nozzle for discharging a removal solution to the outer peripheral part of the substrate to remove the film on the outer peripheral part, in addition to said film removing member.

18. (Original) The processing apparatus as set forth in claim 1, further comprising:

a coating solution discharge nozzle for discharging a coating solution to the substrate to form the film on the substrate.

19. (Original) The processing apparatus as set forth in claim 1, further comprising:

an oxygen radical supply part for supplying oxygen radicals toward at least an outer peripheral part of a surface, which is different from the surface on which the film is formed, of the substrate.

- 20. (Original) The processing apparatus as set forth in claim 1, further comprising:
 - a heating unit for heating the substrate by an infrared ray.
- 21. (Original) A processing method for processing a substrate on a surface of which a film is formed, comprising the step of:

forming in the film on an outer peripheral part of the substrate a sloped part such that its film thickness becomes thinner toward an end part.

22. (Original) The processing method as set forth in claim 21, further comprising the steps of:

selectively removing the film on a portion of the outer peripheral part of the substrate; and

forming the sloped part such that its film thickness becomes thinner toward the portion from which the film is removed.

23. (Original) The processing method as set forth in claim 21, further comprising the step of:

oxidizing a surface of the sloped part.

24. (Original) The processing method as set forth in claim 23, wherein the oxidation is performed by supplying oxygen radicals.

25. - 32. (Canceled)